Abstract

A magnetoresistive thin-film magnetic head with high corrosion resistance for recording medium having massive capacity is provided by providing a protective film having a thickness of 40 Å or less. Since the distance between the head and the medium is remarkably reduced, the film is suitable for a recording medium having high-packing density. The magnetoresistive type thin-film magnetic head is provided, wherein the following layers are formed on at least the surface of the head facing a recording medium: (A) a lower layer composed of a thin film having the composition represented by the formula selected from the group consisting of:

formula (i): $SiC_X H_Y O_Z N_W F_T B_U P_V$ (where X = 0.5 - 26, Y = 0.5 - 13, Z = 0 - 6, W = 0 - 6, T = 0 - 6, U = 0 - 1 and V = 0 - 1, in terms of atomic ratio), and formula (ii): $SiH_Y O_Z N_W F_T B_U P_V$ (where Y = 0.0001 - 0.7, Z = 0 - 6, W = 0 - 6, T = 0 - 6, U = 0 - 1 and V = 0 - 1); and (B) an upper layer composed of a diamond-like thin film having the composition represented by the following formula: $CH_a O_b N_c F_d B_e P_f$ (where a = 0 - 0.7, b = 0 - 1, c = 0 - 1, d = 0 - 1, e = 0 - 1 and f = 0 - 1), and the total thickness of the lower layer and the upper layer is 40 Å or less. Also provided are a method for producing the same, and a magnetic head device using the same.